





JSC/White Sands Test Facility Safety & Health Program

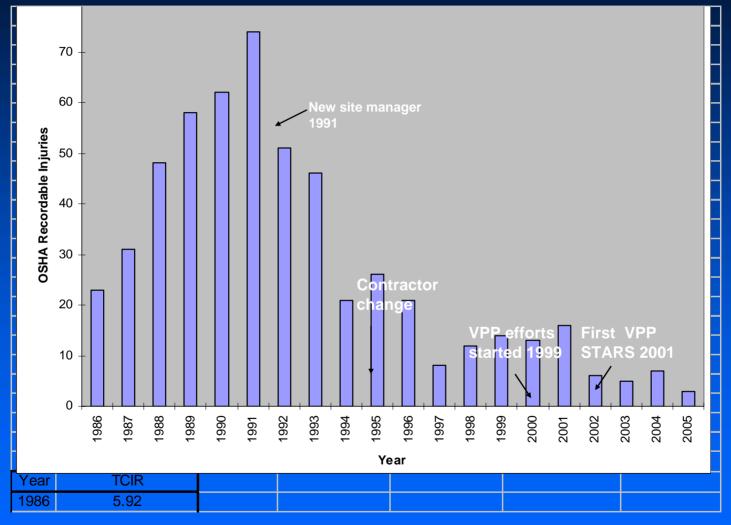
Donald Hall





NASA





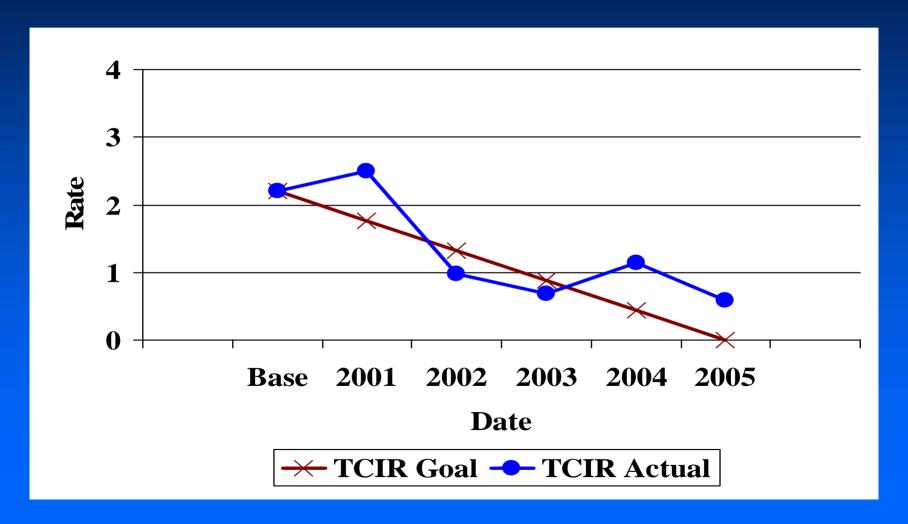








Injury Reduction Objectives (TCIR)











Recent injuries – 3 recordable injuries all lost time

- Employee drove into ditch concussion
- Shoulder and ankle injury in valve pit
- Back injury moving large 130 pound valve in low clearance location
- 1 Mishap Board Close call
 A potential
- 1 Mishap Team Manual valve failure









- Consequence Thinking could have prevented each of the 3 injuries
 - Evaluate job before you start
 - Identify energy sources
 - Control energy sources
 - Accept residual hazards that cannot be controlled
- Think Safety for the next 15 seconds
- "ZERO and Beyond"









• VPP Activities

- Share WSTF experience through conference presentations (employee safety committee)
- 5 VPP STARS at WSTF
- WSTF involved in every VPP site in El Paso
 (5) either mentoring or assessment team









Shutter Valve Failure

- Safety system to protect test articles from back flow of air and steam into vacuum of test stand
- Identified the hazard but failed to ensure system prepared before test was run
- Numerous findings in steam generation system









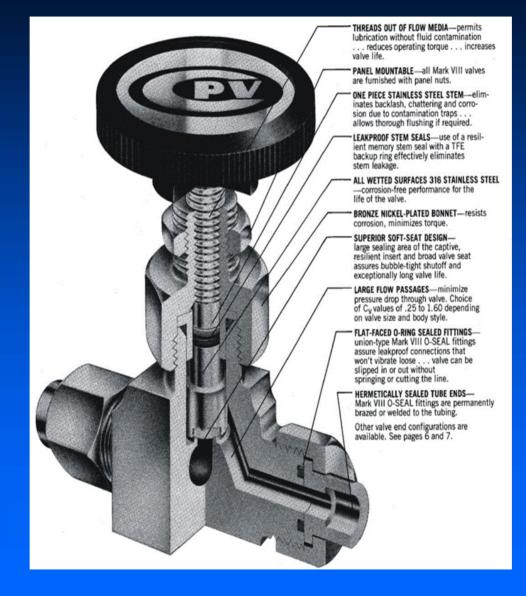
• Hydrazine spill in test cell















Test Cell 844 Manual Valve Failure Mishap Investigation









Space & Life Sciences Directorate Safety & Mission Assurance Directorate





Test Cell 844 Manual Valve Fai Mishap Investigation

- The failure was due to a brittle fracture of the aluminum bronze material. Environmental assisted cracking was the result of normal loading in a corrosive environment of ammonia and oxygen.
- Ammonia was from permeation of the seal(s) and the decomposition of hydrazine, which allowed the ammonia product to react and corrode the bonnet material (aluminum bronze).







Occupational Health --

- Major corrective actions complete from Nov 2004 NASA Occupational Health Assessment
- Clinic operations successfully transitioned to JSC Occupational Health May 2005
- Dr. Terrence Pattinson retained by JSC
 Occupational Health to oversee WSTF medical activities









Occupational Health

- Detailed MOU drafted between WSTF, JSC Occupational Health, and JSC S&MA
 - JSC Occupational Health has direct authority for field occupational health services and Clinic operations
 - WSTF retains contractual authority over
 Fire & Emergency Services (including EMS)
 - JSC Occupational Health is an approval authority for WSTF FOSC EMS provisions thru DRD (contract start May1, 2006)





























